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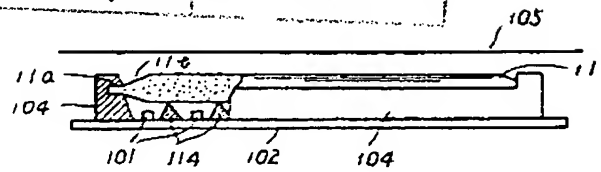

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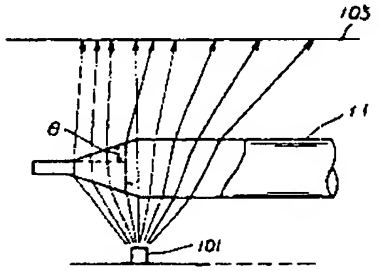
TITLE : LIGHT EMITTING DEVICE



ABSTRACT : PURPOSE: To obtain a desired effective illuminance area without making the overall length longer than required, by forming both end parts of a rod-shaped lens so that its thickness becomes thinner toward its terminal.

CONSTITUTION: A rod-shaped lens 11 is cylindrical except both end parts so as to raise a condensing effect of both end parts, and formed so that thickness of both its end parts becomes thinner toward its terminal. As for a shape of one example thereof, both the terminals are provided with a thin end face part 11a containing the diameter of a column being parallel to a substrate, and a slant face part 11b which has been provided so as to slice off the column toward the center part from said part. As for this slant face part 11b, a part of a curved surface or a spherical surface is suitable, and its inclination is provided on 2~3 pieces o LED pellets from an LED array, although there is problem for a design related to an arrangement (interval), etc., of the LED pellets in the LED array. According to such a rod-shaped lens, as for an optical path of an emitted light of the LED pellet of the end part of the LED array, its effect becomes remarkable when a gradient θ of the slant face is within a range of +20° and -10°. In this way, a drop of an illuminance distribution in both end parts of the LED array is reduced remarkably.